

WHAT IS CLAIMED IS:

1. A control apparatus for a fire pump, the fire pump having a fire pump body, a delivery hose connected to the fire pump body at one end thereof, a nozzle connected to the other end of the delivery hose, and a power source line for supplying electric power to said control apparatus, said control apparatus disposed in the vicinity of the nozzle comprising:

an operation control unit for instructing an operation mode of the fire pump and for transmitting an operation control signal corresponding to the instructed operation mode to the fire pump body via the power source line and receiving a condition display signal from the fire pump body via the power source line; and

a condition display unit for displaying an operation condition of the fire pump on the basis of the condition display signal received by said operation control unit.

2. The control apparatus according to claim 1, wherein said operation control unit transmits a call signal to the fire pump and receives a call signal from the fire pump via the power source line.

3. The control apparatus according to claim 1, wherein said condition display unit displays a revolution frequency of an fire pump driving engine of the fire pump as the operation

condition of the fire pump. ....

4. The control apparatus according to claim 1, wherein said condition display unit displays an degree of an opening of a throttle of the fire pump as the operation condition of the fire pump.

5. The control apparatus according to claim 1, wherein said condition display unit includes a 7-segment display unit displaying one of a numerical value and a predetermined message.

6. The control apparatus according to claim 1, wherein said operation control unit transmits the operation control signal to the fire pump body by superposing FM waves on the power source line.

7. The control apparatus according to claim 2, wherein said operation control unit transmits the call signal to the fire pump body by superposing FM waves on the power source line.

8. The control apparatus according to claim 1, wherein said operation control unit receives the condition display signal from the fire pump body by superposing AM waves on the power source line.

9. The control apparatus according to claim 2, wherein said operation control unit receives the call signal from the fire pump body by superposing AM waves on the power source line.

10. A fire pump comprising:

a fire pump body;

a delivery hose connected to the fire pump body at one end thereof;

a nozzle connected to the other end of the delivery hose;

a nozzle control unit connected to the fire pump body via a power source line for supplying electric power from said fire pump body to said nozzle control unit, said nozzle control unit comprising;

an operation control unit for instructing an operation mode of the fire pump and for transmitting an operation control signal corresponding to the instructed operation mode to the fire pump body via the power source line and receiving a condition display signal from the fire pump body via the power source line; and

a condition display unit for displaying an operation condition of the fire pump on the basis of the condition display signal received by the operation control unit.

11. An operation display apparatus for a fire pump, said operation display apparatus comprising:

an operation unit for controlling an operation of the fire pump and for generating a sound corresponding to the control thereof; and

a display unit for displaying operation information on the fire pump corresponding to the operation of the fire pump controlled by operation unit.

12. The operation display apparatus according to claim 11, wherein said operation unit generates the sound at every control thereof.

13. The operation display apparatus according to claim 11, wherein said display unit includes a 7-segment display unit for displaying one of a numerical value and a predetermined message.

14. The operation display apparatus according to claim 11, wherein said display unit displays at least one of a revolution frequency of a fire pump driving engine of the fire pump, a temperature of cooling water, a discharge pressure of the fire pump and a discharge flow rate of the fire pump.

15. The operation display apparatus according to claim 11, wherein said display unit displays, when a failure is detected in a sensor provided on the fire pump, a predetermined error

indication correspondingly to the sensor detected as the failure.

16. The operation display apparatus according to claim 11, wherein said operation unit has at least one key for controlling the operation of the fire pump and the operation of the fire pump corresponding to the key is carried out only when the key is operated continuously for a predetermined period of time.

17. The operation display apparatus according to claim 16, wherein the key is for stopping a fire pump driving engine of the fire pump.

18. The operation display apparatus according to claim 11, wherein said operation unit has a key for setting as a reference value a pressure at the time a water pressure detection sensor for detecting pressure of water supplied to the fire pump is operated.

19. The operation display apparatus according to claim 11, wherein said operation display apparatus is disposed on a fire pump body of the fire pump.

20. The operation display apparatus according to claim 11, wherein said operation display apparatus is disposed on a remote

control system of the fire pump.

21. An operation mode control apparatus for a fire pump having at least operation modes of the fire pump, said operation mode control apparatus comprising:

an operation mode switching unit switching operation modes; and

a mode setting delay unit for delaying, when the operation mode is switched by the operation mode switching unit, the setting of the switched operation mode for a predetermined period of time.

22. The operation mode control apparatus according to claim 21, wherein one of the operation modes is an automatic relay water supply mode in which the fire pump detects the water supply from a fire pump on a preceding stage and then starts the relay water supply automatically.